HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

<u> </u>	UTILITY ENT APPLICATION TRANSMITTAL
(PA	ENT APPLICATION
E	TRANSMITTAL

(Only for new nonprovisional applications under 37 C F.R. 1.53(b))

Attorney Docket No.	0975.1005-008	I
First Named Inventor or Application Identifier	Junming Le	(
Express Mail Label No.	EL551547474US	
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Title of
Invention

ANTI-TNF ANTIBODIES AND PEPTIDES OF HUMAN TUMOR NECROSIS FACTOR

i li	nvention								
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.					DR	ESS TO): Box Pate:	Commission nt Application ton, D.C. 20	ner for Patents on 231
1. [X		nsmittal Form an original, and a duplic	cate for fee processing)	6.	[]	Microfic	che Computer P	rogram <i>(App</i>	endix)
 2. [X] Specification Total Pages 164 (preferred arrangement set forth below) Descriptive title of the invention Cross References to Related Applications 			7.	[X]	(if application a. [X]	cable, all necess Computer Re	sary) adable Copy		
	 Statement Regarding Fed sponsored R & D Reference to microfiche Appendix Background of the Invention 					b. [X]c. [X]	6 Pages		omputer copy) ty of above copies
		nary of the Invention Description of the Di	rawings	F					*
	- Detai	led Description	S	<u> </u>		ACC	OMPANYING	APPLICATI	ION PARTS
		ract of the Disclosure		8.	[] [X]	Assignee	ent Papers (cov e - Centocor, In rk University, N	c., Malvern, l	Pennsylvania
3. [X]	Drawing [X]For	(s) (35 U.S.C. 113) 7 mal [] Informa							
		of the Drawings for		9.	[]	37 C.F.I (when the	R. 3.73(b) State re is an assignee,	ment []	Power of Attorney
4. [X]	Oath or I	Declaration/POA T	otal Pages 16	10.	[]	English 7	Franslation Doc	cument (if app	plicable)
	a. []	Newly executed (orig	ginal or copy)	11.	[]	Informat Statemen	ion Disclosure at (IDS)/PTO-14	[] 449	Copies of IDS Citations
	b. [X]	(for continuation/divisi	plication (37 C F R 1.63(d onal with Box 17 complet Box 5 below]		[]	Prelimina	ary Amendmen	t	
i. [] <u>DELETION OF INVENTOR(S)</u> Signed statement attached deleting			13.	[X]	Return R (Should b	eceipt Postcard be specifically i	(MPEP 503) temized))	
inventor(s) named in the prior application, see 37 C.F.R. 1.63(d)(2) and 1.33(b).) 14.	[]	Small En Statemen	tity [] S t(s) st	tatement filed atus still proj	d in prior application, per and desired
5. [X] Incorporation By Reference (useable if Box 4b is checked) The entire disclosure of the prior application, from which a				ed) 15.	[]	Certified (if foreign	Copy of Priority priority is cla	ty Document(imed)	(s)
copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.					[] [X]	Nonpubli Other:	ication Request Remarks Lette	(check paren er	nt application)
8.	If a CONT	INUING APPLICAT	ΓΙΟΝ, check appropriat	te box and	Silm	ply the rec	misite informat	ion:	
	[] Con			tinuation-			of prior app		09/133,119
	Prior applie	cation information:	Examiner: K. Canell		•	` ′	Group Art U		05.120,1.5
			19. CORRES	SPONDE	NCE	ADDRE			
NAME		Carolyn S. Eln	nore						
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			I ILLLETONE	(781) 86 ⁻	1-02	40	FAX	(781) 861-	9540

Signature	Deighe E. Sanders	Date	January 8, 2001
Submitted by Typed or Printed Name	Deirdre E. Sanders	Reg. Number	42,122

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HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

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PAT	ENT	APP	LIC	ATI	ONS

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Attorney Docket Number	0975.1005-008	U.S
Application Number		950
First Named Inventor	Junming Le	i.

CLAIM CALCULATION (includes any preliminary amendment)

CLAIMS	(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) C	CALCULATIONS
	TOTAL CLAIMS (37 CFR 1.16(c) or (j))	55 – 20* =	35	x \$18=	\$	630
	INDEPENDENT CLAIMS (37 CFR 1 16(b) or (i))	14 - 3** =	11	x \$80 =	\$	880
	MULTIPLE DEPENDENT C	LAIMS (if applicable) (37 (CFR 1.16(d))	+ \$ 270 =	\$	
				BASIC FEE (37 CFR 1.16(a) or (h))	\$	710
			Total of	above Calculations =	\$	2220
		Reduction by 50% for filing	ng by small entity (37 CF	FR 1.9, 1.27, 1.28) =	\$	
				TOTAL =	\$	2220
		Surcharge - Late Filing of De	eclaration or Filing Fees	(37 C.F.R. 1.16(e)) =	\$	
		Petition	for Extension of Time Fe	ee (37 C.F.R. 1.17) =	\$	
			Assignmen (only when	nt Recordation Fee = filed with application)	\$	
	* Reissue claims in excess of ** Reissue independent claims	20 and over original patent over original patent		TOTAL =	\$	2220

ı		Small	entity	status:
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- a. [] A small entity statement is enclosed.
- b. [] A small entity statement was filed in the prior non-provisional application and such status is still proper and desired.
- c. [] Is no longer claimed.
- 2. [X] A general authorization is hereby granted to charge deposit account number 08-0380 for any fees required under 37 CFR 1.16 and 1.17 in order to maintain pendency of this application. A copy of this authorization is enclosed for accounting purposes.
- 3. [X] A check is enclosed for \$2220.00. [] Please charge \$[] to Deposit Account No. 08-0380.

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Signature	Deirdro E. Sondert	Date	January 8, 2001
Submitted by Typed or Printed Name	Deirdre E. Sanders	Reg. Number	42,122

PTA - EXPRESS MAIL ONLY

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION

Attorney's Docket No.: 0975.1005-008

Applicants:

Junming Le, Jan Vilcek, Peter Daddona, John Ghrayeb,

David M. Knight and Scott Siegel

Divisional Application of

Application No.:

09/133,119

Filed:

August 12, 1998

For:

ANTI-TNF ANTIBODIES AND PEPTIDES OF HUMAN

TUMOR NECROSIS FACTOR

Date: 01-08-01

EXPRESS MAIL LABEL NO. EL 551 547 474 US

REMARKS

Box PATENT APPLICATION

Assistant Commissioner for Patents

Washington, D.C. 20231

Sir:

The above-captioned application is a divisional of application number 09/133,119, filed on August 12, 1998 to which priority is claimed under 35 U.S.C. §120.

The Specification has been revised to incorporate amendments filed in the parent application and to correct minor typographical errors and informalities. The Related Applications paragraph has been revised and updated to include the parent application and issued patents. The discussion of WEHI cytotoxicity assays of fusion proteins has been moved from Example XXVI to Example XXVII for clarity.

Three incomplete sentences in the Specification have been completed for clarity. The first two sentences of the description of Figures 31A-31C have been amended to read: "Figures 31A-31C are graphical representations showing that fusion proteins protected WEHI 164 cells from TNF $\!\alpha$ cytotoxicity. Cells were first sensitized to TNF $\!\alpha$ with actinomycin D and then

incubated in 2 ng/ml TNF α with varying concentrations of TNF α overnight at 37°C." See page 15, lines 12-15. The sentence in Example XXVI bridging page 145, line 29 - page 146, line 2, has been amended to read: "pH 730 contains coding sequences for all three constant domains of human IgG1 and was designed to accomodate the Xba1 fragments of pHC707 at a unique Xbal site upstream of the IgG1 coding sequences (Figure 28)." Support for these amendments is found in application 08/010,406 (the '406 application), filed January 29, 1993, which is entirely incorporated into the present Specification by reference (see page 1, lines 4-18 of the present Specification). Specifically, support for the amendment on page 15, lines 12-15 of the present Specification is found in the '406 application on page 8, lines 19-26, and the accompanying '406 Figures 5A-C. Support for the amendment on page 145, line 29 - page 146, line 2 of the present Specification is found on page 21, lines 31-34 of the '406 application.

The "Sequence Listing" (sheets 1/6 through 6/6) has been inserted.

Figures 16A-16B and Figures 32A-32B have been deleted and Figures 17A-31 and Figures 33A-36 have been renumbered accordingly. Formal drawings are being filed in lieu of the informal drawings originally filed with the parent application. Please note that this deletion and renumbering of the figures took place in the parent application (09/133,119), and it is being done in the instant application to be consistent. Formal Figure 32 has been revised to correct a typographical error in the figure legend.

Claims 1-34 have been omitted and new Claims 1-55 have been added.

If the Examiner desires, Applicants will produce a redlined version or other comparison document comparing this application with the immediate parent thereof. No new matter has been added. As such, a copy of the declaration from the parent application is being filed herewith.

Respectfully submitted,

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Deirdre E. Sanders

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Lexington, Massachusetts 02421-4799

Dated:

January 8, 2001





EXPRESS MAIL LABEL NO. 5151547 474 US

Date: 01-08-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Junming Le, Jan Vilcek, Peter Daddona, John Ghrayeb, David M. Knight

and Scott Siegel

Title:

ANTI-TNF ANTIBODIES AND PEPTIDES OF HUMAN TUMOR

NECROSIS FACTOR

TRANSMITTAL OF SEQUENCE LISTING IN COMPUTER READABLE FORM IN COMPLIANCE WITH 37 C.F.R. §§1.821(e) AND (f)

Box Sequence Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Transmitted herewith is a copy of the "Sequence Listing" in computer readable form as required by 37 C.F.R. §1.821(e). As required by 37 C.F.R. §1.821(f). Applicant's Attorney hereby states that the content of the "Sequence Listing" in paper form and of the computer readable form of the "Sequence Listing" are the same.

Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

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